

Bibliographic Information

Fungicidal substitut d 7-oxy- and 7-thiotriaz lopyrimidines. Pfrenge, Waldemar Franz August; Pees, Klaus Juergen. (American Cyanamid Company, USA). Fr. Demande (2000), 37 pp. CODEN: FRXXBL FR 2784380 A1 20000414 Patent written in French. Application: FR 99-11131 19990906. Priority: US 98-160696 19980925. CAN 133:177188 AN 2000:632342 CAPLUS (Copyright 2002 ACS)

Patent Family Information

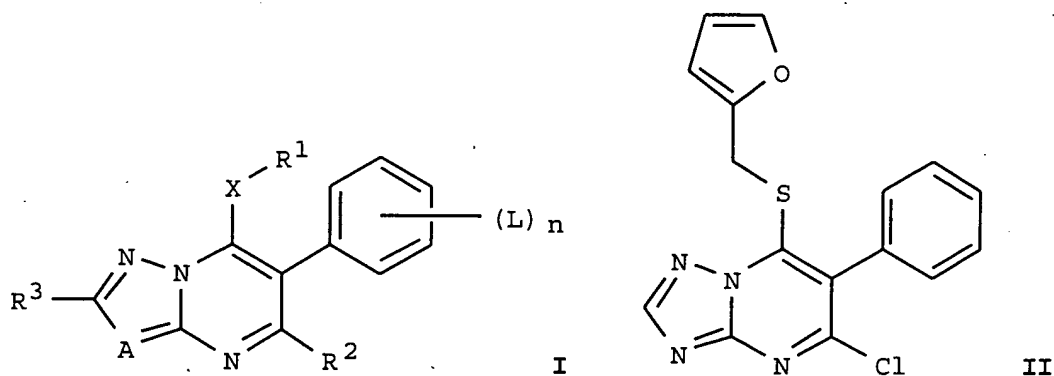
<u>Patent No.</u>	<u>Kind</u>	<u>Date</u>	<u>Application No.</u>	<u>Date</u>
FR 2784380	A1	20000414	FR 1999-11131	19990906

Priority Application Information

US 1998-160696	19980925
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Abstract

Title compds. I are disclosed [wherein: R1 = (un)substituted alkyl, alkenyl, alkynyl, alkadienyl, aryl, heteroaryl, cycloalkyl, bicycloalkyl, or heterocyclyl; R2 = halo, -YR4; Y = O, S, or NR5; R3 = H, alkyl, aryl; R4 = as given for R1; R5 = H, as given for R1; or NR4R5 = heterocyclyl; L = halo, (un)substituted alkyl or alkoxy; A = N or CR6; R6 = as given for R3; X = O or S; n = 0-5]. The compds. are excellent and selective fungicides. Claims and examples include 47 specific compds., with phys. data for 25 of them. For instance, thioetherification of furfuryl mercaptan with 5,7-dichloro-6-phenyl-[1,2,4]triazolo[1,5-a]pyrimidine using NaH in THF gave 32% title compd. II. Selected compds. I showed varying degrees of activity against 7 phytopathogens, with best activity against *Alternaria solani* (typical MIC = 1.56 to 25 mg/mL).



Patent Classifications

Main IPC: C07D487-04. Secondary IPC: A01N043-653. Index IPC: C07D487-04; C07D239-00; C07D249-00.

Indexing -- Section 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5, 10

Fungicides

(prepn. of 7-oxy- and 7-thio-substituted triazolopyrimidines as agrochem. fungicides)

288614-12-0P, 5-Chloro-6-phenyl-7-(3,4,5,6-tetrahydropyrimidin-2-ylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-13-1P, 5-Chloro-6-(4-methoxyphenyl)-7-(fur-2-ylmethylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-14-2P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-allylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-15-3P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-cyclopentylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-16-4P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(2,2,2-trifluoroethylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-17-5P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(isopropylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-18-6P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(1-methylpropylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-19-7P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-propylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-20-0P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(2-methylpropylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-21-1P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-cyclohexylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-22-2P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-butylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-23-3P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-phenylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-24-4P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-benzylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-25-5P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-tert-butylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-26-6P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-methylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-27-7P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-ethylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-28-8P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(4-chlorophenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-29-9P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(2-methylphenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-30-2P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(2-methoxyphenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-31-3P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(4-methoxyphenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-32-4P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(2-chlorophenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-33-5P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-ethoxy-[1,2,4]triazolo[1,5-a]pyrimidine
288614-34-6P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-cyclopentylthio-[1,2,4]triazolo[1,5-a]pyrimidine
288614-35-7P, 5-Chloro-6-(2-chloro-6-fluorophenyl)-7-(2,2,2-trifluoroethoxy)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-36-8P, 5-Chloro-7-allylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-37-9P, 5-Chloro-7-cyclopentylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-38-0P, 5-Chloro-7-(2,2,2-trifluoroethylthio)-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-39-1P, 5-Chloro-7-(isopropylthio)-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-40-4P, 5-Chloro-7-(1-methylpropylthio)-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-41-5P, 5-Chloro-7-propylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-42-6P, 5-Chloro-7-(2-methylpropylthio)-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-43-7P, 5-Chloro-7-cyclohexylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-44-8P, 5-Chloro-7-butylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-45-9P, 5-Chloro-7-phenylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-46-0P, 5-Chloro-7-benzylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-47-1P, 5-Chloro-7-tert-butylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-48-2P, 5-Chloro-7-methylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine

288614-49-3P, 5-Chloro-7-ethylthio-6-(2,4,6-trifluorophenyl)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-50-6P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-(4-chlorophenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-51-7P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-(2-methylphenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-52-8P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-(2-methoxyphenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-53-9P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-(4-methoxyphenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-54-0P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-(2-chlorophenylthio)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-55-1P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-ethoxy-[1,2,4]triazolo[1,5-a]pyrimidine
288614-56-2P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-cyclopentyloxy-[1,2,4]triazolo[1,5-a]pyrimidine
288614-57-3P, 5-Chloro-6-(2,4,6-trifluorophenyl)-7-(2,2,2-trifluoroethoxy)-[1,2,4]triazolo[1,5-a]pyrimidine
288614-59-5P, 5-Chloro-6-phenyl-7-(fur-2-ylmethylthio)-[1,2,4]triazolo[1,5-a]pyrimidine

Role: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fungicide; prepn. of 7-oxy- and 7-thio-substituted triazolopyrimidines as agrochem. fungicides)

98-02-2, Furfuryl mercaptan

288614-58-4, 5,7-Dichloro-6-phenyl-[1,2,4]triazolo[1,5-a]pyrimidine

Role: RCT (Reactant); RACT (Reactant or reagent)

(starting material; prepn. of 7-oxy- and 7-thio-substituted triazolopyrimidines as agrochem. fungicides)

Supplementary Terms

triazolopyrimidine oxy thio prepn fungicide

